

## ABSTRACT OF THE INVENTION

[0057] The present invention provides a dynamic queue for managing jobs in a threaded computing environment. Jobs may be placed in the queue, which may be maintained within a context of the computing environment, at a given priority level. The priority of jobs within the queue and the receipt time of each job is maintained. A job may also be placed within the queue with triggers that, if met, will result in the priority of the job being changed or will result in the job being removed from the queue entirely. Methods in accordance with the present invention also provide a method for raising an exception should multiple threads seek to access objects within a single context. Methods in accordance with the present invention also provide compatibility with prior computing systems and methodologies by providing for integration of prior static queues with dynamic queues in accordance with the present invention, and by providing methods for a given thread to be pinned to a particular context of a computing environment.